

OTROSHCHENKO, V.D.; ZENIN, M.F.

Interrelationship of the mineralization of tungsten, iron, and boron
in skarns in the separate regions of Central Asia. Nauch. trudy TashGU
no.249. Geol. nauki no.21:124-126 '64. (MIRA 18:5)

OTROSHCHENKO, V.D.; ZENIN, M.F.; KHORVAT, V.A.

Distribution of disseminated boron in some rocks in the northern
Tien Shan. Uzb. geol. zhur. 9 no. 6:18-23 '65. (MIRA 19:1)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii
i mineral'nogo syr'ya. Submitted December 21, 1964.

ZENIN, V.I.

Investigating the sensitivity of explosives to mechanical effects.
Trudy MakNTI 15:301-336 '63. (MIRA 17:11)

ZENIN, V.I.; MITS. V.N.

Electromagnetic radiation during the detonation of explosive charges.
Vop. bezop. v ugol'. shakh. 13:265-279 '62.

(MIRA 16:5)

(Electromagnetic waves)

(Blasting)

ZENIN, V. I., Candidate Med Sci (diss) -- "Renal hemodynamics in patients with rheumatic heart defects and the effect on this of mitral commissurotomy and ligature of the inferior vena cava". Moscow, 1959. 15 pp (Secmd Moscow State Med Inst im N. I. Pirogov), 250 copies (KL, No 22, 1959, 121)

ZENIN, M. A., Cand Med Sci -- (diss) "Antihelminthic properties
of the tall ~~le~~ elecampane (^{experimental} ^{clinical study} ~~research~~)." Mos, 1957.
11 pp. (Second Mos State Inst im N. I. Pirogov), 200 copies.
(KL, 9-58, 123)

USSR / Pharmacology and Toxicology--Medicinal Plants V-5

Abs Jour: Ref Zhur-Biol., No 23, 1958, 107340

Author : Zenin, M. A.

Inst. : Kursk Medical Institute

Title : Inula Helenium Exaltatum, a New Vermifuge
Preparation (Experimental Clinical Study)

Orig Pub: Sb. tr. Kurskiy med. in-t, 1956, vyp. II, 459-463

Abstract: It was shown on 56 mice that the fluid extract (F) and 20 percent decoction (D) of Inula helenium exaltatum, when introduced into the stomach, do not possess a considerable toxicity. In acute experiments on six dogs, it was established that in the intravenous introduction of F and D in a dosage of 0.1 to 0.3 grams per kilogram of dry root, the

Card 1/2

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USSR / Pharmacology and Toxicology--Medicinal Plants

V-5

Abs Jour: Ref. Zhur-Biol., No 23, 1958, 107340

arterial pressure drops by 11 to 32 percent in a space of 5 to 20 minutes. The vermifuge action of F and D in ascariasis and dipylidiasis was studied on 45 dogs. F and D in a dose of 1.5 to 4 grams per kilogram of dry root was introduced twice. It was established that the vermifuge action of F is weaker than that of D; 13 patients with ascariasis and 28 with hymenolenidiasis were treated with F and D in doses (assayed by dry root) of 60 to 70 grams per adult. Of 28 patients with hymenolenidiasis, 12 were cured. No side effects were noted. The treatment of the patients with ascariasis was ineffective. --F. G. Sivashinskaya

Card 2/2

PROCESSES AND PROPERTIES INDEX

A-4

Be

Nutritive value of food fats and oils. II. Butter and sunflower oil. A. PIGAT, N. ZEKIN, O. KUR-SINA, and P. ALKINVA (Problems of Nutrition, U.S.S.R., 1966, No. 1, 107). — Compared with butter, sunflower oil (I) has high, and cast very low, nutritive val. when fed to young rats as 30% of the caloric val. of the ration. The high biological val. of (I) is attributed to its content of highly unsaturated fatty acids. When groups of rats which have received the three rations are subsequently starved, the (I) group survives longest. NUTR. ANN. (n)

ASB-55A METALLURGICAL LITERATURE CLASSIFICATION

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24(1)

SOV/107-58-12-49/55

AUTHOR:

Zenin, N.

TITLE:

Exchange of Experience (Obmen opytom).
Artificial Reverberation (Iskusstvennaya
reverberatsiya)

PERIODICAL:

Radio, 1958, Nr 12, p 55 (USSR)

ABSTRACT:

The author says it is possible to produce artificial reverberation when playing gramophone records by using two heads with piezo-elements placed in one pickup arm. The author explains the process, which is illustrated by a drawing. There is 1 diagram.

Card 1/1

ZENIN, N.A., inzh.; KARKHINA, A.Ya., inzh.; DOROSHENKO, V.Ya., inzh.

Production of oil meal for reprocessing in the affiliated extraction plants. Masl.-zhir.prom. 28 no.9:28-29 S '62. (MIRA 15:9)

1. Belorechenskiy maslozavod.
(Oils and fats)

LEONT'YEVSKIY, K.Ye., kand.tekhn.nauk; TIKHONOV, M.I.; ZENIN, N.A.

Operating experience with two-stage screw presses. Masl.-zhir.
prom. 26 no.11:38-40 N '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Leont'-yevskiy, Tikhonov).
2. Belorechenskiy maslozavod (for Zenin).

(Oil industries---Equipment and supplies) (Power presses)

ZENIN, N. I

SERGEYEV, A.A., red.; ANPILOV, I.M., red.; ASSONOV, V.A., red.; BABAYANTS, N.A., red.; BABOKIN, I.A., red.; BALAMUTOV, A.D., red.; BOGORODSKIY, M.N., red.; BOLONENKO, D.N., red.; BUCHNEV, V.K., red.; VAKHMINTSEV, G.S., red.; VORONKOV, A.K., red.; GARKALENKO, K.I., red.; GORBATOV, P.Ye., red.; GOLOVLEV, V.Ya., red.; DOKUCHAYEV, M.M., red.; DUBNOV, L.V., red.; YEVTEYEV, A.D., red.; YEREMENKO, Ye.K., red.; ZENIN, N.I., red.; KRIVONOGOV, K.K., red.; KUPALOV-YAROPOLK, I.K., red.; MATSYUK, V.G., red.; NIKOLAYEV, S.I., red.; ONISHCHUK, K.N., red.; PETROV, K.P., red.; PITYUGIN, B.A., red.; PLATONOVA, A.A., red.; POLESIN, Ya.L., red.; POKROVSKIY, L.A., red.; POMETUN, D.Ye., red.; POLYUSHKIN, A.Kh., red.; REYKHER, V.P., red.; SEDOV, N.A., red.; SIDORENKO, I.T., red.; FIDEL'EV, A.A., red.; CHAKHMAKHCHEV, A.G., red.; CHEMODUROV, M.Ya., red.; SHUMAKOV, A.A., red.; YAREMENKO, N.Ye., red.; PARTSEVSKIY, V.N., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Standard safety regulations for blasting operations] Edinye pravila bezopasnosti pri vzryvnykh rabotakh. Izd.2. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 318 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru. (Mining engineering--Safety measures)

ZENIN, WI

VASKOVSKIY, S.F.; ZENIN, N.I., red.; SKVORTSOV, V.P., red.izdatel'stva;
AVERKIYEVA, T.A., tekhn.red.

[Practical manual on handling explosives] Prakticheskoe rukoyodstvo
po obrashcheniiu s vzryvchatymi materialami. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po geol.i okhrane neдр, 1957. 159 p.

(MIRA 11:1)

(Explosives)

1ST AND 2ND ORDERS
PROCESSES AND PROPERTIES INDEX

11-

CP

The nutrient value of edible fats and oils. I. The nutrient value of margarine and soybean oils. A. K. Pickett, N. S. Zenin, P. I. Alekseeva and O. Kuristina. *Voprasy Pitaniya (Problems of Nutrition)* 2, No. 5, 34-38 (1953); *Chem. Zentr.* 1954, II, 2000; cf. *C. A.* 29, 2577. —Feeding expts. on white rats in which margarine and soybean oil are compared with butter, the fat making up 30% of the caloric value of an otherwise fat-free diet, are reported. As regards growth, rats fed with butter and those with soybean oil showed the same increase in wt. and those receiving margarine grew more slowly. When subjected to subsequent starvation the animals fed with soybeans lived longest. Chem. analyses showed a marked effect upon the lipid and carbohydrate compn. of the animal tissues. The high nutritive properties of soybean oil and margarine, which in some respects excel those of butter, are due to the high content in unsatd. fat acids.
M. G. Moore

METALLURGICAL LITERATURE CLASSIFICATION

B-III-4

Nutrient value of edible fats and oils. I. Mar-
 garine and soya-bean oils. A. K. PICKAT, N. S.
 ZEMIN, P. I. ALEXEVA, and O. KURTEVA (Probl. Nutri-
 tion [Russia], 1933, 2, No. 3, 34-60; cf. A., 1934,
 1130).--Rats receiving a diet containing soya-bean oil
 or butter as sole source of fat (30% of the caloric val.
 of the ration) grew at similar rates; those receiving
 margarine grew more slowly. During subsequent
 starvation those receiving soya-bean survived longest.
 The lipid and carbohydrate contents of the tissues were
 markedly affected. The high nutrient val. of margarine
 and soya-bean oil is ascribed to their high contents of
 unsaturated fatty acids. (Cm. Ann. 1st)

ASS-31A METALLURGICAL LITERATURE CLASSIFICATION

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117 AND 2ND ORDER 100 AND 6TH ORDER

PROCESSES AND PROPERTIES INDEX

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Nutritive value of food fats and oils. II. Bees and sunflower oil. A. K. Pickett, N. S. Zenin, O. Kuridua and P. I. Aleksieva. *Problems of Nutrition* (U. S. S. R.) 3, No. 1, 107(1934).—Compared with butter, sunflower oil (I) has high, and most very low, nutritive value when fed to young rats as 30% of the caloric value of the ration. The high biol. value of I is attributed to its content of highly unsatd. fat acids. When groups of rats which have received the 3 rations are subsequently starved, the I group survives longest. B. C. A.

ASME-LLA METALLURGICAL LITERATURE CLASSIFICATION

GROUPS RECORDS MET ONLY USE BIBLIOTHEC SERIALS MET ONLY USE

11 10 9 8 7 6 5 4 3 2 1 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

ZENIN, S., starshiy pilot-inspektor

Giving new pilots their assignments. Grazhd.av. 12 no.2:16-17

F '55.

(MIRA 16:1)

(Air pilots)

ZENIN, V.I., kand.med.nauk (Moskva)

Conditions of renal hemodynamics at late intervals following
mitral commissurotomy and ligation of the inferior vena cava.
Terap.arkh. 33 no.11:64-70 '61. (MIRA 15:5)

1. Iz kafedry propedeutiki vnutrennikh bolezney pediatricheskogo
fakul'teta (zav. - prof. A.M. Damir) II Moskovskogo meditsinskogo
instituta imeni N.I. Pirogova.

(MITRAL VALVE--DISEASES) (VENA CAVA) (KIDNEYS)

PECHUK, I.M.; ZENIN, V.I.

Causes of outbursts. Sbor.trud.Inst.gor.dela AN URSR no.8:83-97
'61. (MIRA 15:2)

(Mine gases)

ROSINSKIY, N.L.; MAGOYCHENKOV, M.A.; ZENIN, V.I.

On M.F. Pilipovich's article "Specifications for boring and blasting operations." Bezop. truda v prom. 5 no. 5:16-17 My '61.
(MIRA 14:5)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti
rabot v gornoy promyshlennosti.
(Coal mines and mining) (Pilipovich, M.F.)

GALADZHIY, F.M., kand. tekhn. nauk; POPOV, I.I., inzh.; ZENIN, V.I.,
inzh.

Study of the causes of the failure of reliable detonations of
borehole charges with safety explosives in group blasting of
coal. Vzryv. delo no.51/8:331-345 '63. (MIRA 16:6)

1. Makeyevskiy nauchno-issledovatel'skiy institut.
(Coal mines and mining) (Blasting)

DAMIR, A.M., prof.; ZENIN, V.I.

Relation between the degree of dilation of cervical veins and
the height of venous pressure. Sov. med. 28 no.10:3-5 O '65.
(MIRA 18:11)

1. Kafedra propedevtiki vnutrennikh bolezney (zav.- prof. A.M.
Damir) pediatricheskogo fakul'tata II Moskovskogo meditsinskogo
instituta imeni Pirogova.

ZENIN-NIKULIN, L., mayor

Military rank granted before the appointed time. Voen. vest. 39 no.10:
48-50.0 '59. (MIRA 13:2)
(Russia--Army--Officers)

15-57-10-15019
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
p 285 (USSR)

AUTHOR: Zenin, P. A.

TITLE: The Mechanization of Loading Coal From Bunkers to Cars
(Mekhanizatsiya pogruzk uglya iz bunkerov v vagony)

PERIODICAL: Ugol' Ukrainy, 1957, Nr 2, pp 38-40

ABSTRACT: The Donets Coal Institute has proposed a new method of conveying loads from bunkers to railroad cars by a system of chutes which permits loading the cars within the required weight and produces automatic leveling of the coal in the cars at a given height. At the same time a new automatic guiding apparatus has been introduced which makes it possible to move the car in either direction and to dial the weight automatically. The testing of the new complex loading arrangement under actual practical operation proved it satisfactory. The number of workers for loading was reduced from eight to

Card 1/2

15-57-10-15019

, The Mechanization of Loading Coal From Bunkers to Cars (Cont.)

one, and the loading of a 60-ton car was accomplished, on the average, in three minutes instead of 15.
Card 2/2

I. A. Demidov

IL'IN, V.M., inzhener; ZENIN, P.A., inzhener.

Mechanization of coal leading from heppers to railroad cars. Mekh.
trud.rab.10 no.7:34-35 JI '56. (MIRA 9:9)
(Loading and unloading)

KURSKIY, Ye.F., dorozhnyy master 8 okolotka (Bryansk); KOSTIKOV, A.I.,
dorozhnyy master 7 okolotka (Bryansk); ZHENIN, P.I.; NAZYMOK, N.P.
(Kaluga)

Letters of the "Zheleznodorozhnyi transport" readers in response to
the article "Improving the stability of tracks laid on sand foundation."
Zhel.dor.transp. 42 no.10:44 O '60. (MIRA 13:10)

1. Bryanskaya distantziya puti Kalininskoy dorogi (for Kurskiy, Kostikov).
2. Brigadir 25 otdeleniya 9 distantzii puti Kalininskoy dorogi, Bryansk
(for Zenin).
3. Zamestitel' nachal'nika Kaluzhskoy distantzii puti.
(for Nazymok).

(Railroads--Track)

ZENIN, S., starshiy inspektor-pilot

Efficient organization of work for the elimination of cotton leaves,
Grazhd. av. 12 no.7:29-30 Jl '55. (MIRA 11:6)
(Aeronautics in agriculture) (Cotton growing)

ZBNIN, S.; GAVRILOV, D.

Mistake of the pilot Tsyganov. Grazhd. av. 15 no.11:30-32 N '58.
(MIRA 11:12)

(Airplanes--Landing)

ZENIN, S.

Treat national property as the apple of one's eye. Kryl.rod. 3 no.8:
6-7 Ag '52. (MIRA 8:8)
(Airplanes--Maintenance and repair)

ZENIN, S., starshiy pilot-inspektor

Preliminary and preflight training at the operations airdrome.
Grazhd. av. 12 no.4:5-6 Ap '55. (MLRA 8:9)
(Aeronautics--Study and teaching)

BESMAN, Ignatyi Ivanovich; ZENIN, Sergey Mikhaylovich; PROKOPOV, P.Ye.,
red.; RABINOVICH, A., red.; KALECHITS, G., tekhn. red.

[Experience in mastering crop rotation in the Stalin Collective
Farm] Opyt osvoeniia sevooborotov v kolkhoze imeni Stalina
(Dzerzhinskii raion, Minskoi oblasti). Minsk, Gos.izd-vo BSSR.
Red. sel'khoz. lit-ry, 1960. 50 p. (MIRA 14:12)

1. Chlen-korrespondent Akademii nauk BSSR (for Prokopova).
(Dzerzhinsk District (Minsk Province))—Rotation of crops)

ZENIN, V.

BONDAREVA, I.I., dots., prepodavatel'; GAMAYUNOV, M.V., dots., kand. nauk, prepodavatel'; GOL'DMAN, R.Ya., kand. nauk, prepodavatel'; ZHELUJKOV, A.P., kand. nauk, prepodavatel'; KALININA, V.N., kand. nauk, prepodavatel'; LIFAR', G.G., prepodavatel'; MART'YANOVA, L.P., kand. nauk, prepodavatel'; NEZNANOV, S.V., dots., kand. nauk, prepodavatel'; SALAY, I.G., dots., kand. nauk, prepodavatel'; SASKOVETS, Ye.L., dots., kand. nauk, prepodavatel'; ZENIN, V., red.; DANILINA, A., tekhn. red.

[The party is the organizer of the collective farm system] Partiya - organizator kolkhoznogo stroia. Moskva, Gos. izd-vo polit. lit-ry, 1958. 190 p. (MIRA 11:8)

1. Kafedra marksizma-leninizma Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii imeni K.A. Timiryazeva (for all except Zenin, Danilina).

(Collective farms)

ZENIN, V.

An around-the-clock joint brigade in longwall mining. Mast. ugl.
5 no.5:5-6 My '56. (MIRA 9:8)

1. Inzhener otdela organizatsii truda shakhty No. 1 kombinata
'Intaugol'.
(Coal mines and mining) (Mine management)

ZENIN, V.

Progressive brigade of the Pechora Basin. Mast.uglia 5 no.1:3-5
Ja '56. (MLRA 9:5)

1. Inzhener otдела organizatsii truda shakhty No. 1 kombinata
Intaugol'.

(Pechora Basin--Coal mines and mining)

PETROV, Yuriy Pavlovich; ZENIN, V., redaktor; DANILINA, A., tekhnicheskiy
redaktor

[Military commissars during the Civil War (1918-1920) Voennye
komissary v gody grazhdanskoi voiny (1918-1920gg). Moskva, Gos.
izd-vo polit. lit-ry, 1956. 146 p. (MLRA 9:7)
(Russia--Revolution, 1917-1921)
(Russia--Army--History)

ZHIVAGO, A.V.; ZENIN, V.A.; KAMANIN, L.G.; MESHCHERYAKOV, Yu.A.; SINYAGINA, M.I.

Some results of the study of present-day tectonic movements in the western half of the European U.S.S.R. Izv. AN SSSR Ser. geog. no. 1:35-52
Ja-F '56. (MLRA 9:7)

1. Institut geografii AN SSSR i Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aoros'yemki i kartografii.
(Earth movements)

ZENIN, V.A.

Method of marine leveling. Trudy GOIN no.61:66-115 '61.

(MIRA 14:10)

(Hydrographic surveying)

ZENIN, V.A.

Oceanographic research methods. Trudy Okean. kom. 10 no.1:9-15
'60. (MIRA 14:6)
(Oceanographic research)

ZENIN, V.I.

Determining the initiating properties of detonators with the help of pressed ammonite. Vzryv. delo no.55/12:136-139 '64.

Studying the sensitivity of electric detonators to mechanical action. Ibid.:140-149 (MIRA 17:10)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti truda v gornoy promyshlennosti.

ZENIN, V.I. (g.Kalinin, ul.15 let Oktyabrya, d.51/18, kv.24)

Effect of ligation of the inferior vena cava on renal
circulation, glomerular filtration, and tubular reabsorption.
Grud. khir. 2 no.3:27-32 My-Je '60. (MIRA 15:3)

1. Iz kafedry propedvtiki vnutrennikh bolezney (zav. - prof.
A.M. Damir) pediatricheskogo fakul'teta II Moskovskogo meditsin-
skogo instituta imeni N.I. Pirogova.
(VENA CAVA--LIGATURE)
(BLOOD--CIRCULATION)

ZENIN, V. I.

Effect of commissurotomy in mitral stenosis on renal flow,
glomerular filtration, and tubular reabsorption. Terap. arkh.
30 no. 5: 64-71 My '58 (MIRA 11:6)

1. Iz kafedry propedev'tiki vnutrennikh bolezney pedagogicheskogo
fakul'teta (zav. - prof. A.M. Demir) II Moskovskogo meditsinskogo
instituta imeni N.I. Pirogova.
(COMMISSUROTOMY, effects,
on kidney funct. (Rus))
(KIDNEYS, physiology,
eff. of commissurotomy (Rus))

ZEMIN, V. I., gornyy inzh.

Deformation of the coal block in outburst areas. Ugol' Ukr. 4
no.9:25-28 S '60. (MIRA 13:10)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti
gornyykh rabot.
(Subsidences (Earth movements))

ZENIN, Vasilii Polikarpovich; VISHNYAKOVA, Ye.A., red.; MARAKASOVA,
L.P., tekhn.red.

[Great work of concern to all] Bol'shoe vsenarodnoe delo.
Moskva, Izd-vo "Sovetskaya Rossiya," 1960. 50 p. (MIRA 13:6)

1. Sekretar' Ryazanskogo obkoma Kommunisticheskoy partii Sovetskogo
Soyuza (for Zenin).
(Ryazan Province--Agriculture)

SOV/84-58-11-39/58

AUTHORS: Zenin, S., Gavrilov, D.

TITLE: Pilot Tsyganov's Error (Oshibka pilota Tsyganova)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 11, pp 30-32 (USSR)

ABSTRACT: The editors requested the authors to analyze the error committed by pilot Tsyganov (Urals aviation group) while flying under difficult weather conditions. The article describes the particular situation and attributes the pilot's accident to inexperience in instrument flying and generally inadequate training, primarily responsible for his fatal decision to drop to a minimal altitude in search of a landing. The need for careful preliminary study of meteorological conditions is stressed and the importance of following the written instructions given all pilots which cover various situations and emergencies. The authors point to the difference between piloting transport planes and planes used for special purposes, the latter usually flown along local routes where guidance from the ground may not be

Card 1/2

Pilot Tsyganov's Error

SOV/84-58-11-39/58

depended upon. Personalities mentioned include pilot Lobutenkov (Northern Territorial Administration), and An-2 commander Smolyakov (Northern Caucasus Territorial Administration).

Card 2/2

GALADZHIY, F.M.; ZENIN, V.N.; VAYNSHETYN, B.I.

Improving the methods of measuring the detonation velocity. Vzryv.
delo no.52/9:108-114 '63. (MIRA 17:12)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti
truda v gornoy promyshlennosti.

ZENIN, V.N.; MITS, V.N.

Electromagnetic radiation of industrial explosives during the
blast. Vzryv. delo no.52/9:115-130 '69. (MIRA 17:12)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti
truda v gornoy promyshlennosti.

ZENIN-GEVSKIY, F. I.

"Stereotopographic Methods of Constructing Topographic Maps in the USSR."

report submitted for the United Nations Seminar on Aerial Survey Methods and Equipment, Bangkok, Thailand, 4 January - 5 Feb 1960

| | |
|---|---|
| L 35862-66 EWT(1) DD | |
| ACC NR: AP6022515 (N) | SOURCE CODE: UR/0391/66/000/007/0005/0009 ^{SD} |
| AUTHOR: Fukalova, P. P. (Moscow); Tolgskaya, M. S. (Moscow); Nikogosyan, S. V. (Moscow); Kitsovskaya, I. A. (Moscow); Zenina, I. N. (Moscow) ^B | |
| ORG: Institute of Industrial Hygiene and Occupational Diseases, AMN SSSR (Institut gigiyeny truda i profzabolevaniy AMN SSSR) | |
| TITLE: Research data on the standardization of EMF's in the short- and ultrashort-wave ranges | |
| SOURCE: Gigiyena truda i professional'nyye zabolevaniya, no. 7, 1966, 5-9 | |
| TOPIC TAGS: microwave, microwave biologic effect, central nervous system, UHF, human physiology, animal physiology, animal experiment, industrial hygiene | |
| ABSTRACT: In a survey of radio and television stations and establish- ments which process dielectrics thermally, measurements using various dosimeters showed that field intensities around short- and ultrashort-wave sources were 8-450 v/m and 4-220 v/m, respectively. The reaction speed and accuracy were studied in personnel exposed to | |
| Card 1/4 | UDC: 613.647 |

ACC NR: AP6022515

these sources. Chronometric tests, observations of visual motor reactions, and work capacity were studied and are summarized in Table 1.

Table 1. Changes in the physiological functions of duty personnel in two radio stations (%)

| Observed parameter | Shift | | | | | | | | | |
|--|-----------|------------|-----------|------------|--------------|-------------|--------------|--------------|-------------|--------------|
| | Evening | | Day | | Night | | | | | |
| | Station I | Station II | Station I | Station II | Station I | | | Station II | | |
| | | | | | Before sleep | After sleep | End of shift | Before sleep | After sleep | End of shift |
| Latent period of positive conditioned reflexes | 0.0 | 0.0 | 16.1 | 12.6 | 2.2 | 2.2 | 6.6 | 0.0 | 11.1 | 42.5 |
| Subsequent inhibition | 6.9 | 4.1 | 24.3 | 18.7 | 0.0 | 2.1 | 13.0 | 0.0 | 8.1 | 17.3 |
| Disinhibition of differentiation | 20.0 | 10.0 | 40.0 | 20.0 | 60.0 | 60.0 | 70.0 | 30.0 | 8.1 | 60.0 |
| Steadiness of attention | 21.4 | 33.0 | 50.0 | 21.4 | 33.0 | 19.9 | 33.3 | 25.0 | 50.0 | 36.6 |
| No. of errors | 1.5 | 1.0 | 2.5 | 1.0 | 3.0 | 3.0 | 4.0 | 2.0 | 2.5 | 4.0 |

It was concluded that the action of EMP's is aggravated by inefficient work-rest cycles which lead to shifts in various physiological reactions

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ACC NR: AP6022515

and the development of fatigue. To study the mechanism of the effect of EMF's, animals were exposed to 14, 88, and 69.7 Mc fields (5000 v/m intensity). Animals in the ultrashort-wave range were killed within 5 min, while those in the shortwave range died in 1 hr and 40 min. Nonthermal (no integral thermal effect such as increased body temperature) threshold intensity for the ultrashort-wave range was 150 v/m and for the shortwave range, 2250 v/m. Chronic exposure to these intensities (plus exposure to an ultrashort-wave intensity of 300 v/m) did not result in any substantial changes in body weight dynamics compared to control animals. However, a decrease in brain-stem cholinesterase activity occurred more rapidly during exposure to ultrashort waves than exposure to short waves. Both regimens decreased the excitability and weakened the inhibition process in chronically exposed rats. Such exposure also tended to depress brain biopotentials progressively. An ultrashort-wave intensity of 10 v/m and shortwave intensity of less than 50 v/m is a subthreshold irritant. Photos show the results of a cytomorphological examination of neural structures in exposed animals which revealed thickening of neural fibers, swelling and vacuolization of cell protoplasm in the thalamo-hypothalamic area and medulla oblongata, and local karyocytolysis of individual neurons. Shriveling of individual pyramid cells and individual vacuoles in neurons of the brain cortex was noted. Thus, it was found that an ultrashort-wave intensity of 150 v/m and a shortwave intensity of 2250 v/m is more than

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L 35862-66

ACC NR: AP6022515

sufficient to cause physiological and morphological changes in neural structures and that the intensity of the effect depends on wave range, field intensity, and exposure duration. On the basis of these data, a permissible exposure intensity of 5 v/m is recommended for workers around ultrashort-wave sources and 20 v/m for workers around shortwave sources. Orig. art. has: 6 figures and 1 table. [CD]

SUB CODE: 06/ SUBM DATE: 07Jan65/ ORIG REF: 017/ OTH REF: 001
ATD PRESS: 5037

Card 4/4 *llb*

LYUBIMOVA, P.S.; ZENINA, I.Ye., redaktor; GENNAD'YEVA, I.M., tekhnicheskiy redaktor.

[Ostracoda of Cretaceous deposits in the eastern part of the Mongolian People's Republic and their importance for stratigraphy] Ostrakody melovykh otlozhenii Vostochnoi chasti Mongol'skoi Narodnoi Respubliki i ikh znachenie dlia stratigrafii. Leningrad, Gos.nauch.techn.izd-vo neftianoi i gorno-toplivnoi lit-ry. Leningradskoe otd-nie. 1956. 174 p. 25 tables. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologo-razvedochnyi institut. Trudy, no.93) (MLRA 9:12)

(Mongolia--Ostracoda, Fossil)

FERTEL³MEYSTER, Ya.N.; OVSIYENKO, P.I.; ZENINA, M.N.

Quality of grease for hoisting cables. Trudy MakNII 12: Vop.
gor. elektromekh. no.4:367-373 '61. (MIRA 16:6)

(Wire rope)
(Lubrication and lubricants)

OVSIIYENKO, P.I.; ~~ZENINA, M.N.~~

Grease for steel cables. Trudy MakNII 14. Vop. gor. elektromekh.
no.5:146-155 '62. (MIRA 16:6)

(Mine hoisting--Equipment and supplies)
(Lubrication and lubricants--Testing)

PANKRAT'YEV, S.F.; PISKUN, S.A.; ZENINA, M.Y.; LEBEDEV, N.N., inzh., red.;
PAKHOMOVA, M.A., red.izd-va; BOROVIKOV, N.K., tekhn.red.

[Electrician-operator in the construction industry] Elektromonter-
ekspluatatsionnik na stroitel'stve. Pod red. N.N.Lebedeva. Izd.4.,
dop. i perer. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i
stroit.materialam, 1958. 322 p. (MIRA 12:4)
(Electric engineering--Handbooks, manuals, etc.)

PANKRAT'YEV, S.F.; ZENINA, M.V.; PISKUN, S.A.; LEBEDEV, N.N., inshenér,
redaktor; UDOD, V.Ya. redaktor; SMOLYAKOVA, M.V., tekhnicheskii
redaktor.

[Manual for the maintenance electrician in the building industry]
Spravochnik elektromontera-ekspluatatsionnika na stroitel'stve.
Pod red. N.N.Lebedeva. Izd. 3-e, dop. i perer. Moskva, Gos. izd-vo
lit-ry po stroit. i arkhitekture, 1955. 270 p. (MLRA 9:5)
(Electric engineering)

SOV/19-58-6-104/685

AUTHORS:

Yenal'yev, V. D., Yurzhenko, A. I., Sinayskiy, G. M.
and Zenina, T. M.

TITLE:

A Method of Obtaining Concentrated Hydrogen Peroxides
(Sposob polucheniya kontsentrirrovannykh gidroperekisey)

PERIODICAL:

Byulleten' izobreteniy, 1958, Nr 6, p 27 (USSR)

ABSTRACT:

Class 12⁶, 26₀₁. Nr. 113861 (586850 of 25 Nov 1957)

Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A method of obtaining concentrated hydrogen peroxides of dialkyl-aryl-methanes by oxidization with oxygen or air in the presence of water alkali; with periodic replacement of the water phase and addition of hydrogen peroxide, which achieves deeper oxidization.

Card 1/1

SHATALOV, V.P., POPOVA, Ye.N., GERGASEVICH, T.V., ZENINA, T.N., KRYGINA, K.G.,
MAKASHOVA, A.M.

Preparation of a butadiene-styrene rubber emulsion in systems
containing a modified wood resin soap. Kauch.i rez. 19 no.7:6-9
Jl '60. (MIRA 13:7)

1. Voronezhskiy zavod sinteticheskogo kauchuka im. S.M. Kirova.
(Rubber, Synthetic) (Butadiene)

ZENINA, T.N.

15.9210

82723
S/138/60/000/007/003/010
A051/A029

AUTHORS: Shatalov, V.P.; Popova, Ye.N.; Gergasevich, T.V.; Zenina, T.N.;
Krygina, K.G.; Makashova, A.M.

TITLE: The Production of Butadiene-Styrene Rubbers in an Emulsion in Modified Colophony Soap Systems

PERIODICAL: Kauchuk i Rezina, 1960, No. 7, pp. 6 - 9

TEXT: The authors refer briefly to the significance of improving the performance of automobile and other tires, which involves the perfecting of the butadiene-styrene rubber properties, the main raw material used in their production. The properties of the rubber are improved in comparison with the use of Nekal by using emulsifying agents during the emulsion copolymerization of butadiene and styrene. Nekal has the tendency to form a calcium salt, which reduces the mileage of the tire. The conditions for the production of butadiene-styrene rubber in an emulsion with modified colophony soap and synthetic fatty acids were investigated at 5 and 50°C. The method for the production of rubber both at 5 and 50°C is outlined. The copolymerization of 1,3-butadiene with styrene in an aqueous emulsion with modified colophony soap was studied in 2 systems: 1) with the oxidation-re-

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A051/A029

The Production of Butadiene-Styrene Rubbers in an Emulsion in Modified Colophony Soap Systems

duction group hydroquinone-sodium sulfite-ammonia-hydroperoxide of 1.1-diphenyl-ethane and 2) the oxidation-reduction group formaldehyde-sodium sulfoxylate-trilon B-ferric sulfate hydroperoxide of 1.1-diphenylethane. Potassium soap of hydrated and disproportionate colophony with an addition of synthetic fatty acid soap was used as the emulsifying agent (Table 1). The composition recommended for the synthesis of low-temperature butadiene-styrene rubber is cited. Table 2 shows the comparative rates of polymerization at different contents. Sodium chloride and acetic or sulfuric acids are suggested as the coagulating agent of the latex with the colophony soaps. The order in which the reacting substances are mixed affects the nature of the coagulum, the stability of the process and the expenditure of sodium chloride. Table 3 is a listing of the physico-mechanical properties of the low-temperature rubbers. The modification method of the colophony does not affect the copolymerization process at both 5 and 50°C. The order by which the acid is introduced into the system has a significant effect on the rubber formation from the latex with colophony soap. In addition to this, the waiting period between each mixing of the ingredients is another important factor determining the nature

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A051/A029

The Production of Butadiene-Styrene Rubbers in an Emulsion in Modified Colophony Soap Systems

of the rubber formation from the latex. It was also established that the less soap is used in the content, the less chloride is needed for the reaction. It is seen that the rubber formed in the colophony soap system is more pliable than that formed in a Nekal system, the dosage of the regulator remaining constant. The former is more easily masticated, its rubber mixtures have greater adhesiveness and vulcanize more rapidly. There are 4 tables and 6 references: 4 Soviet and 2 English.

ASSOCIATION: Voronezhskiy zavod sinteticheskogo kauchuka im. S.M. Kirova (The Vo-
ronezh Synthetic Rubber Plant im. S.M. Kirov) X

Card 3/3

5(3)

SOV/64-59-4-3/27

AUTHORS: Shatalov, V. P., Popova, Ye. N., Zenina, T. N., Antonova, A. M.,
Khlopotunov, G. F.

TITLE: Synthesis of Hydrogen Peroxide of Diisopropyl Benzene and Investigation of Its Initiating Properties in the Process of the Production of Butadiene Styrene Rubber SKS-30A (Sintez gidroperekisi diizopropilbenzola i ispytaniye yeye initsiiruyushchikh svoystv v protsesse polucheniya butadiyen-stirol'nogo kauchuka SKS-30A)

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 4, pp 13 - 15 (USSR)

ABSTRACT: It was already noticed that an acceleration of the polymerisation (P) is effected by the application of diisopropyl benzene hydrogen peroxide (I) instead of isopropyl hydrogen peroxide as oxidizing agent in the synthesis of butadiene-styrene rubber (Ref 2). The investigations mentioned in the title were begun in the VNIISK. The oxidation took place in a special apparatus (Fig 1) at 110-112° on adding 1.0% "giperiz" (g), 0.07% caustic soda and an air supply of 100-120 l/hour (per liter (II)). During 8-9 hours 22-28% (II) are transformed into (I) (Fig 2, curve of the function of the concentration of (II) of the oxidation duration). An increase of the amount of lye by 0.05% accelerates

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Synthesis of Hydrogen Peroxide of Diisopropyl Benzene SOV/64-59-4-3/27
and Investigation of Its Initiating Properties in the Process of the Pro-
duction of Butadiene Styrene Rubber SKS-30A

the process by 15-20% (Fig 3). On adding 5% hydrogen peroxide without lye 25-30% (II) are transformed into (I) during 10-14 hours. Two methods of concentrating (I) were tested - a steam- and a high-vacuum distillation. The first yields at given conditions up to 90% (I), the latter 65-70% (I). Investigations of the initiating properties of (II) on the (P) according to the prescription SKS-30A show that (P) takes place by 15-20% more quickly with (I) than with isopropyl hydrogen peroxide and with tert-butylisopropyl benzene approximately as quickly as with (I) (Table 2). The application of diisopropyl monohydrogen peroxide instead of (g) permits an increase of the (P)-rates by 15-20% and a decrease of the Nekal-addition in the SKS-30A-prescription by approximately 6% without effecting a deterioration of the yield or quality of the rubber. There are 3 figures, 3 tables, and 5 references, 2 of which are Soviet.

Card 2/2

ZENINSKIY, A.M.; KOROLEVA, M.P.; MOLOCHNIKOV, I.M.; NENASHEVA, R.V.

Using the production capacity of the petroleum refineries
of Bashkiria. Trudy BashNII NP no.6:267-271 '63.

CHISTOSERDOV, B.P.; ZENINSKIY, A.M.; KOROLEVA, M.P.; NURMUKHAMEDOVA, I.Z.

Methodology for determining labor productivity in the petroleum
industry. Khim. i tekhn. topl. i masel 10 no.10:34-38 0 '65.
(MIRA 18:10)

1. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke
nefti.

LENISER, H.

CZECH

Amino acid losses in the sweat of persons performing hard physical work and in sportsmen. J. Král and Antonín Zentek (Kabinet tělovýchovného lékařství, Prague). *Časopis Lékařů Českých* 93, 1163-63(1934); cf. *C.A.* 40, 11761. — Three groups of persons were studied: slightly trained students (I) riding a bicycle ergometer, 22 acclimatized metallurgic workers (II), and 5 workers (III) of Píslavský hot springs. Losses of water and total amino acid N were estd.; in several cases (I and II) where the concn. was estd. at the beginning and at the end of work, a downward trend was observed. Individual amino acids were studied by paper chromatography. Decalting was not necessary when using the *tert*-BuOH-boric buffer system (Hals and Horešovsky, *C.A.* 43, 8302d). By means of the method of Cain and Berry (*C.A.* 45, 10232b), concns. of lysine, arginine + citrulline, threonine, and histidine were estd. and their over-all losses in sweat calcd. During 1-hr. work in group I, the losses of water, amino acid N, and individual amino acids were very pronounced, as compared with the 8-hr. work of group II; the averages were 105 (I) and 111 (II) for lysine, 189 (I) and 148 (II) for arginine + citrulline, and 63 (I) and 22 (II) for threonine during the entire working periods. In III, water losses were very low; losses of free essential amino acids were too low to be of nutritional

F. M. Hals

importance.

CZECH

Paper chromatography of amino acids in serum, red blood cells, sweat, and urine after muscular effort. II. Amino acids in subjects with projointia after physical effort. J. A. Král and A. Zentek (Kabinet lidovychovného lékárství, Prague). *Casopis Lékařů Českých* 94, 114-18(1955); cf. *C.A.* 49, 1175i. —Nineteen persons were subjected to muscular exercise of riding a bicycle ergometer for 30 min. (approx. 35 w.). Blood serum, red blood cells, and urine were analyzed before and after the work. Sweat was col-

KRAL, J.A., MUDr, prof.; ZENISEK, A., RNDr

Paper chromatography of amino acids in blood serum, erythrocytes, sweat and urine after muscle effort; 2. communication: amino acids in patients with albuminuria after effort. Cas. lek. cesk. 94 no.5: 114-118 28 Jan 55

1. Z kabinety televychovneho lekarstvi lekarske fakulty Karlovy university v Praze. Prednosta prof. Dr. Jiri Kral

(ALBUMINURIA

amino acids in, after muscle effort, chromatography)

(BLOOD SERUM

amino acids in albuminuria after muscle effort, chromatography)

(ERYTHROCYTES

amino acids in albuminuria after muscle effort, chromatography)

(SWEAT

amino acids in albuminuria after muscle effort, chromatography)

(URINE

albuminuria, amino acids after muscle effort, chromatography)

(CHROMATOGRAPHY

of amino acids in blood serum, erythrocytes, sweat & urine in albuminuria after muscle effort)

(MUSCLES, physiology

effort in albuminuria, amino acids in blood serum

APPROVED FOR RELEASE: 07/19/2001 (erythrocytes, sweat & urine) CIA-RDP86-00513R001964420019-5"

CA 10

Chemistry of dehydroabietic and 6-sulfodehydroabietic acids and some of their salts. J. Frejka and A. Ženíšek (Charles Univ., Prague). *Chem. Listy* 44, 3-10 (1950).
6-Sulfodehydroabietic acid was isolated as its Na or Ba salt from the sulfonation products of colophony. The Ba, Sr, Br, Pb, and Zn primary (acid) salts were prepd. Attempts to convert the CO₂H to an NH₂ group were unsuccessful.
M. Hudlický

CA

10

Chemistry of dehydroabietic and 6-sulfodehydroabietic acids and some of their salts. J. Prejka and A. Zentek (Charles Univ., Prague). *Chem. Listy* 44, 3-10(1950). 6-Sulfodehydroabietic acid was isolated as its Na or Ba salt from the sulfonation products of colophony. The Ba, Sr, Be, Pb, and Zn primary (acid) salts were prepd. Attempts to convert the COH to an NH₂ group were unsuccessful. M. Hudlické

EXCERPTA MEDICA Sec 13 Vol 13/12 Dermatology Dec 59

3228. THE PROBLEM OF THE UROCANIC ACID CONTENT OF THE SKIN AND SWEAT - Die Problematik des Urocaninsäuregehaltes der Haut und des Schweißes - Zenisek A., Hais I. M. and Kral J. A. Forsch. Inst. für Pharm. und Biochem. und Inst. für Sportmed., Karls-Univ., Prag - MFD. KOSMET. 1958, 7/11 (320-323)

Studying their findings in sweat experiments the authors think it most probable that the urocanic acid found in secondary sweat originates from the epidermis.
Groothuis - Utrecht

ZENISEK, A.

The 2d Congress of the International Federation of Societies
of Cosmetic Chemists. Chem listy 57 no.1:101 Ja '63.

KREJCI, E.; KUTOVA, M.; KRAL, J.A.; ZENISEK, A.; STOLZ, I.

Polarographic determination of urocanic acid in sweat. Cas. lek. ceak.
97 no.27-28:857-861 4 July 58.

1. II. ustav pro chemii lekárskou KU v Praze, prednosta prof. Dr.
A. F. Richter. Ustav telovychovneho lekarstvi KU v Praze. prednosta
prof. Dr. J. A. Kral. E. K., Praha 2, Salmovska 3.

(IMIDAZOLES, determination,
urocanic acid in sweat, polarography (Cz))

(SWEAT,
urocanic acid, polarography (Cz))

ZENISEK, A.

"Practical and industrial formulary" by M. Freeman. Reviewed
by A. Zenisek. Chem listy 58 no. 2: 240 F '64.

"Beauty chemistry" by Ch. Bourgeois. Reviewed by A. Zenisek.
Ibid.:240.

ZENISEK, A.

"First Congress of the International Federation of Societies of
Cosmetic Chemists, Munich 1960" by L.W.Masch. Reviewed by A.
Zenisek. Chem listy 57 no.9:998-999 S '63.

KRAL, J.; ZENISEK, A.

Loss of amino acids with sweat in hard workers and athletes. Cas.
lek. cesk. 93 no.42:1155-1163 15 Oct 54.

1. K kabinetu telovychovneho lekarstvi lekarske fakulty university
Karlovy

(AMINO ACIDS, metabolism

absorp. by sweat in athletes & hard workers)

(ATHLETICS

phys. strain causing sweating, absorp. of amino acids)

(WORK, physiology

eff of heavy work of amino acid absorp. in sweat)

(SWEAT

amino acids absorp. in athletes & hard workers)

ZENISEK, A.

Chemical Abstr.

V. 48, No. 5

Mar. 10, 1954

Organic Chem.

Chemistry of resinic acids. A. Zenisek. *Chemie (Prague)*
7, 229-31 (1961).—A review with 66 references.
R. Sviravka

8-31-54
RAB

ZENISEK, A.

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Biological Chemistry

occurrence of urocanic acid in human sweat. A. Zenisek⁽¹³⁾
and J. A. Král (Charles Univ., Prague). *Biochim. et
Biophys. Acta* 12, 479-80 (1953).—Approx. 0.1 mg./ml.
of urocanic acid in human sweat was found. An as yet
unidentified spot on paper chromatograms of human sweat
developed with Pauly reagent was identified as imidazole-
propionic acid, formed from urocanic acid by hydrogenation
during electrodialytic desalting of the sweat; the spot was
not detected when undesalted sweat was analyzed.
Morton Pader

Med 3
Possible significance of urocanic acid content of sweat
for protection against the erythema-producing effect of
ultraviolet radiation. A. Zepisek, J. A. Kral, and I. M.
Huis (Charles Univ., Prague). *Congr. interna. biochim.,
Résumés communs., 3^e Congr., Brussels 1955*, 124 (in Eng-
lish); cf. *C.A.* 49, 6410h. — The amt. of urocanic acid in
sweat greatly exceeds the amts. in other body fluids in man.
Since it shows powerful absorption of radiation at 300 mμ.
(in the zone of greatest erythema: production and cancer pro-
duction), it may have a role as a natural protection against
short-wave solar rays. W. C. Tobie

Zenišek, A.

✓ Paper chromatography and polarography as a tool for the study of histidine metabolism in skin: Estimation of histidine and urocanic acid in human sweat. J. A. Král, M. Kátová, A. Ženišek, E. Krejčí, and I. Stolz (Charles Univ., Prague). *Biochim. et Biophys. Acta* 20, 587-9 (1956) (in English); cf. C.A. 48, 2880c. -Methods are given for the direct simultaneous estn. of histidine and urocanic acid (1) in sweat by paper chromatography and of 1 polarographically. Results obtained by the 2 methods were in agreement. Marton Paper.

3
Marton

"APPROVED FOR RELEASE: 07/19/2001

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APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001964420019-5"

ZENISEK, A.

✓ 2195. Indol-3-yiacetic acid in human urine after muscular effort. J. A. Kral, A. Zenisek and I. Striz. (Karlovy Univ., Prague, Czechoslovakia). *Biochim. Biophys. Acta*, 1956, 19 (1), 169. — Preliminary separation of indol-3-yiacetic acid from 16 ml of urine acidified with acetic acid is effected on 400 mg of a mixture of equal parts of charcoal and silica, which is then eluted with 10 ml of n-butanol - water - aq. NH₃ - methanol (2:15:2:1). The eluate is evaporated to dryness, the residue is dissolved in 0.5 ml of water and 25 μl are chromatographed on paper. Development is with n-butanol - aq. NH₃ - water (15:1:4), for which the R_f value is 0.47. Indol-3-yiacetic acid is detected by the red colour formed on spraying with 5 per cent FeCl₃ in acetic acid. W. H. C. SHAW

W 3

ZENISEK, A.

✓ 2195. Indol-3-yiacetic acid in human urine after muscular effort. J. A. Kral, A. Zenisek and I. Stolz (Karlovy Univ., Prague, Czechoslovakia) *Biochim. Biophys. Acta*, 1959, 19 (1), 159.—Preliminary separation of indol-3-yiacetic acid from 13 ml of urine acidified with acetic acid is effected on 400 mg of a mixture of equal parts of charcoal and silica, which is then eluted with 10 ml of n-butanol - water - aq. NH₃ - methanol (2:13:2:1). The eluate is evaporated to dryness, the residue is dissolved in 0.8 ml of water and 25 μl are chromatographed on paper. Development is with n-butanol - aq. NH₃ - water (15:1:4), for which the R_f value is 0.47. Indol-3-yiacetic acid is detected by the red colour formed on spraying with 5 per cent FeCl₃ in acetic acid.

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MD ✓ 3-Indoleacetic acid in human urine after muscular effort.
J. A. Kral, A. Zenisek, and I. Stolz (Charles Univ., Prague).
Biochim. et Biophys. Acta 19, 169 (1956).—The urinary con-
tent of 3-indoleacetic acid, a plant growth stimulator, was
found to increase following muscular activity. There were
indications that such activity also resulted in decreased uri-
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A vasoactive hypertensin-like substance in the blood of hypertensive patients. Evžen Eiselt, Jiří Kohout, Libuše Korbová, and A. Zenisek (Karlovy Univ., Prague). *Časopis lékařů českých* 95, 685-688 (1960). -- The hypertensin-like substance was prepd. in the following way: 30 ml of venous blood was centrifuged. The resulting serum was deproteinized with 3.75 vols. of 75% Me₂CO, the pptd. proteins filtered off and the pH adjusted to 4.5 with CH₃COOH. After removing Me₂CO by distn. the remaining soln. was evapd. to dryness on a water bath and the residue dissolved in H₂O (10 ml. H₂O/50 ml. serum). The soln. was dialyzed 24 hrs. against H₂O after which the pH of the dialyate was adjusted to 7.3 and 5 ml. was injected into dogs. The vasoactivity was detd. by measuring the blood pressure directly and indirectly on the carotid artery. The absence of adrenaline-like substances in such vasoactive extra. was dem.

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(ANGIOTONIN,
angiotonin-like substance in hypertension, determ. in
dogs (Cz))

(HYPERTENSION, blood in
angiotonin-like substance, determ. in dogs (Cz))

(BLOOD
angiotonin-like substance, determ. in dogs. (Cz))

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Sun-screening effect of in Lanic acid. A. Zenisek, J. A. Král, and I. M. Hala (Charles Univ., Salmovská, Prague). *Biochim. et Biophys. Acta* 19: 780-81 (1956); *ibid.* 19: 2808c. Comparison of the ultraviolet absorption curve of urocanic acid (I) with a curve relating erythemogenic activity and wave length of the erythemogenic radiation indicates that the absorptive properties of I make it useful as a sun-screening agent. I, though absorbing erythema-producing radiation, transmits the pigment-producing radiations. The normal I content in the sweat of 16 subjects was in the range of 40-160 γ /ml. Morton Pader

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Technicka spoluprace M. Kyselova

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1. Ustav telovychovneho lekarstvi KU v Praze, prednosta prof. dr.
J. Kral. Vyzkumny ustav pro farmacii a biochemii, reditel inz. dr.
O. Nemecek. II. ustav lekarsky chemie KU v Praze, prednosta prof.
dr J. Sula. Vyzkumny ustav chorob revmatickych, prednosta prof.
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Author : Kral, Jiri; Zenisek, Antonin; Hais, Ivo M.

Inst : Carolina University of Prague, Institute of Medicine.

Title : The Significance of Urocanic Acid in Human Sweat for the Protection of the Skin from Ultraviolet Rays.

Orig Pub : Univ. carolina. Med., 1955, Suppl. No 1, 379-384.

Abstract : It has been established that human sweat contains urocanic acid, produced by histidine. This acid causes sweat absorption of ultraviolet (UV) rays in the part of the spectrum (290-310 m μ) which produces erythema. The possibility of using this factor in research is discussed, in order to find a substance which would insure artificial skin protection from effects of UV rays. -- A.S. Raben.

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(UTERUS dis)